

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number 10/694,331

Filing Date October 27, 2003

First Named Inventor RAYBURN

Art Unit 3744

Examiner Name N/A

Attorney Docket Number 20714-0025

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
BCM	A	US- 2,961,844	11/29/1960	McGRATH WILLIAM L.	
BCM	B	US- 2002/0092318 A1	07/18/2002	TIPTON et al.	
BCM	C	US- 2003/0029924 A1	02/13/2003	KLOSTER	
BCM	D	US- 2004/0089002 A1	05/13/2004	RAYBURN	
BCM	E	US- 3,105,366	10/01/1963	ATCHISON LEONARD W.	
BCM	F	US- 3,139,735	07/07/1964	MALKOFF et al.	
BCM	G	US- 3,203,196	08/31/1965	MALKOFF, Hyman	
BCM	H	US- 3,316,730	05/02/1967	LAURER	
BCM	I	US- 3,779,031	12/18/1973	AKLYAMA et al.	
BCM	J	US- 3,786,859	01/22/1974	DAY	
BCM	K	US- 4,173,125	11/06/1979	BRADSHAW	
BCM	L	US- 4,173,924	11/13/1979	BRADSHAW	
BCM	M	US- 4,182,133	01/08/1980	HAAS et al.	
BCM	N	US- 4,189,929	02/26/1980	RUSSELL	
BCM	O	US- 4,270,362	06/02/1981	LANCIA et al.	
BCM	P	US- 4,271,678	06/09/1981	LIEBERT	
BCM	Q	US- 4,271,898	06/09/1981	FREEMAN	
BCM	R	US- 4,367,631	01/11/1983	JOHNSON et al.	
BCM	S	US- 4,367,787	01/11/1983	BRADSHAW	
BCM	T	US- 4,398,452	08/16/1983	BRADSHAW	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)				
BCM	TT	WO 02/50623 A1	08/27/2002	HONEYWELL INTERNATIONAL INC		
BCM	UU	WO 03/054457 A1	07/03/2003	EDWARDS		
BCM	VV	WO 93/10411	05/27/1993	EIERMANN		

Examiner
SignatureDate
Considered

1/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

Q

4

Attorney Docket Number

Complete if Known

Application Number

10/694.331

Filing Date

October 27, 2003

First Named Inventor

RAYBURN

Art Unit

3744

Examiner Name

N/A

Attorney Docket Number

20714-0025

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
BCM	U	US- 4,432,147	02/21/1984	CHEN et al.	
BCM	V	US- 4,442,049	04/10/1984	BLOOMER	
BCM	W	US- 4,494,596	01/22/1985	BRADSHAW	
BCM	X	US- 5,065,586	11/19/1991	SHAPIRO-BARUCH	
BCM	Y	US- 5,265,433	11/30/1993	BECKWITH	
BCM	Z	US- 5,345,776	09/13/1994	KOMAZAKI et al.	
BCM	AA	US- 5,390,505	02/21/1995	SMITH et al.	
BCM	BB	US- 5,400,607	03/28/1995	CAYCE	
BCM	CC	US- 5,400,607	03/28/1995	CAYCE	
BCM	DD	US- 5,450,893	09/19/1995	GALBA et al.	
BCM	EE	US- 5,622,057			
BCM	FF	US- 5,634,348	06/03/1997	IKEDA et al.	
BCM	GG	US- 5,752,389	05/19/1998	HARPER, Thomas H.	
BCM	HH	US- 5,752,389	05/19/1998	HARPER	
BCM	II	US- 5,992,160			
BCM	JJ	US- 6,055,818	05/02/2000	VALLE et al.	
BCM	KK	US- 6,059,016	05/09/2000	RAFALOVICH et al.	
BCM	LL	US- 6,123,147	09/26/2000	PITTMAN	
BCM	MM	US- 6,131,653	10/17/2000	LARSSON	
BCM	NN	US- 6,355,091	03/12/2002	FELBER et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

1/24/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b(08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/694,331
		Filing Date	October 27, 2003
		First Named Inventor	RAYBURN
		Art Unit	3744
		Examiner Name	N/A
Sheet 4 of 4	Attorney Docket Number	20714-0025	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BCM	1	Department of the Air Force Letter Tyndall Air Force Base 13 July 1993	
BCM	2	Rapid Engineering Publication ICS II Sequence of Operation 04 November 1996	
BCM	3	Desert Aire Publication, Milwaukee, Wisconsin Dehumidifier November 1998	
BCM	4	Desert Aire Publication, Milwaukee, Wisconsin Technical Bulletin June 1998	
BCM	5	Modern Refrigeration and Air Conditioning p. 689 1982	
BCM	6	Task/Ambient Conditioning Systems: Engineering and Application Guidelines University of California October 1996	

Examiner Signature		Date Considered	1/24/06
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.


This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
Application Number				10/694,331	
Filing Date				October 27, 2003	
First Named Inventor				RAYBURN	
Art Unit				3744	
Examiner Name				N/A	
Attorney Docket Number				20714-0025	
Sheet	1	of	2		

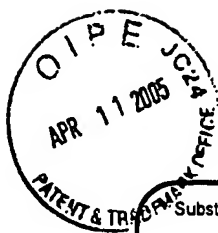
[illegible][illegible]

Examiner Signature		Date Considered	1/24/2006
-----------------------	---	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number 10/694,331

Filing Date October 27, 2003

First Named Inventor RAYBURN

Art Unit 3744

Examiner Name N/A

Attorney Docket Number 20714-0025

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BCM	1	SPORLAN, 3-Way Valves (Installation and Servicing Instructions), Sporlan Valve Company, Washington, MO June 2001 / Bulletin 30-21	
BCM	2	SPORLAN, 3-Way Valves (The Right Solenoid Valve for any Job), Sporlan Valve Company, Washington, MO June 2001 / Bulletin 30-20	
BCM	3	SPORLAN, Type 5D Three-Way Heat Reclaim Valve for Refrigerants 12-22-134a-502, Sporlan Valve Company, Washington, MO December 1995 / Bulletin 30-10-1	
BCM	4	SPORLAN, Solenoid Valves, Sporlan Valve Company, Washington, MO January 1993 / Bulletin 30-10	

Examiner
SignatureDate
Considered

1/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	
Filing Date	October 27, 2003
First Named Inventor	RAYBURN
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	20714-0025

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
BCM	A	US-6,553,778 b2	04-29-2003	Tipton et al.	
BCM	B	US-6,491,094 B2	12-10-2002	Rayburn et al.	
BCM	C	US-6,170,271 B1	01-09-2001	Sullivan	
BCM	D	US-6,079,483	06-27-2000	Morooka et al.	
BCM	E	US-6,012,296	01-11-2000	Shah	
BCM	F	US-5,984,002	11-16-1999	Kido et al.	
BCM	G	US-5,915,473	06-29-1999	Ganesh et al.	
BCM	H	US-5,887,651	03-30-1999	Meyer	
BCM	I	US-5,752,389	05-19-1998	Harper	
BCM	J	US-5,675,979	10-14-1997	Shah	
BCM	K	US-5,450,893	09-19-1995	Galba et al.	
BCM	L	US-5,346,128	09-13-1994	Wacker	
BCM	M	US-5,345,776	09-13-1994	Komazaki et al.	
BCM	N	US-5,129,234	07-14-1992	Alford	
BCM	O	US-5,062,276	11-05-1991	Dudley	
BCM	P	US-4,974,665	12-04-1990	Zillner, Jr.	
BCM	Q	US-4,941,325	07-17-1990	Nuding	
BCM	R	US-4,869,073	09-26-1989	Kawai et al.	
BCM	S	US-4,813,474	03-21-1989	Umezumi	
BCM	T	US-4,527,247	07-02-1985	Kaiser et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
BCM	U	WO 00/75742 A1	12-14-2000	Invensys Climate Controls SPA		
BCM	V	WO 82/03269	09-30-1982	Cantley		
BCM	W	JP 60-57142	04-02-1985	Daikin Kogyo KK		
BCM	X	JP 58-117935	07-13-1983	Tokyo Shibaura Denki KK		

Examiner
SignatureDate
Considered

1/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 If possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA

